

5

IOWA STATE COLLEGE
OF AGRICULTURE AND MECHANIC ARTS
AMES, IOWA

DEPARTMENT OF BACTERIOLOGY
~~██████████~~

July 27, 1951

Dr. Joshua Lederberg
The University of Wisconsin
College of Agriculture
Madison 6, Wisconsin

Dear Joshua:

Thank you very much for the K12 cultures. They are behaving as expected.

I still have the *Aerobacter* mutants and have been working extensively with them. We are still attempting to detect recombination and recently have obtained some possible new leads. I have also been trying to adapt your method of crossing by using one multiple mutant of *Aerobacter* as well as W1177 to test wild type *Aerobacter* cultures for recombination. But in spite of our using these cultures in the search for recombination in *Aerobacter* or with W1177, I see no reason why you should not feel free to use the cultures for your purposes.

I have mailed four cultures to you. The parent strain and three double mutants

I18 is auxotrophic for Guanine and Leucine
I20 " " " Guanine " Threonine
I28 " " " Histidine " Tryptophane.

I imagine that either I18 or I20 and I28 represent what you need. The guanine mutants also respond to adenine. All grow well in T₀ medium and Davis medium. I hope the cultures will be useful to you and I'll be interested to hear how they work out.

Incidentally Gert and I will be on vacation during August. We hope to visit California and points on route. Your new technique involving velvet discs sounds very good. I'll try it as soon as I get back from vacation.

Lastly would you please send a culture of the original K12 to F. Bagatelle of this department. Thanks very much.

With best personal regards,

Sincerely,

Stan.

Shapiro

see card 3